

Art Unit: 3743

**ABSTRACT OF THE DISCLOSURE**

There are described a method, an apparatus and an ignition pellet for the ignition of combustible gases, for example from a flare or flare tower, where an ignition pellet is launched in a direction toward a region of combustible gas, characterized in that the ignition device is propelled by means of a pressure medium through a guidance tube to the gas cloud region, that the ignition device undergoes a reaction for the purpose of active ignition of the gas in the region, the time for its activation and reaction being predetermined and adapted to the particular flare and application. The reaction of the ignition device is in the form of a shower or cloud of sparks where at least parts of the shower of sparks will strike the cloud of gas. The ignition device is activated somewhere along its path through the tube, possibly at the moment when the ignition device leaves the tube, possibly when the ignition device starts its journey through the tube, or possibly by the fact that the ignition device strikes an object in the vicinity of the flare. The ignition device may be positioned within a trapping device prior to the reaction of the ignition device. The ignition device may be propelled through the guidance tube at a moderate speed, may optionally be stopped during its passage through the tube and may optionally be reversed and returned back into the guidance tube without a reaction taking place.

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